

Telex : MIDEV BU 2808  
Cable : MIDEVBRUNEI  
Telephone : 2383222  
Fax : 2380298 / 2380033



كنترين قباعون  
KEMENTERIAN PEMBANGUNAN  
BANDAR SERI BEGAWAN BB3510  
NEGARA BRUNEI DARUSSALAM

Rujukan Kami : (2247) KPN/ABCi/C/8.0  
Our Reference :

Rujukan Kamu :  
Your Reference :

05 Jamadilawal 1436  
24hb. Februari 2015

Yang Mulia,  
Pengarah Urusan  
DSC Engineering Co. Sdn Bhd  
Unit 8, 1<sup>st</sup> Floor, Block C, Latifuddin Complex,  
Jalan Tungku Link, Gadong BE3719  
Negara Brunei Darussalam.

Tel : + 673 2424608  
Fax : :673 2424607

Tuan,

**PERMOHONAN PERSIJILAN PRODUK BAGI BAHAN-BAHAN BINAAN (BARU)  
"RISHANG LIGHTING PRODUCTS"**

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Dengan hormat sukacita merujuk permohonan pihak Tuan yang diterima pada 13hb Oktober 2014 oleh pihak ABCi selaku Urusetia Jawatankuasa Persijilan Produk untuk didaftarkan mengikut Skim Persijilan Produk bagi bahan-bahan binaan dibawah Kementerian Pembangunan seperti diatas.

Sukacita memakdumkan bahawa Jawatankuasa Persijilan Produk bagi bahan-bahan binaan telah meluluskan produk berikut:

**"RISHANG LIGHTING PRODUCTS"**

Untuk berdaftar dibawah **Skim 2 Persijilan Produk** bagi bahan-bahan binaan bagi tempoh **21hb. Februari 2015 sehingga 07hb. Februari 2017.**

Dalam tempoh ini, Jawatankuasa Persijilan Produk atau pemeriksa pihak ketiga (3rd Party) yang dilantik akan menjalankan pemeriksaan keatas produk-produk seperti konsisten kualiti yang dikeluarkan secara rawak (random).

Jika kualiti produk didapati tidak memuaskan semasa pemeriksaan dijalankan, ianya hendaklah diperbaiki dengan segera. Jika gagal berbuat sedemikian, surat kebenaran Persijilan produk berkenaan akan dibatalkan dan penggunaan produk tidak boleh diguna pakai dalam mana-mana projek Kerajaan.

2/.....



- 2 -


Sila ambil maklum bahawa penggunaan produk ini oleh pihak Tuan bagi projek-projek Kerajaan KDYMM adalah tertakluk kepada keperluan khas jabatan pengguna dari segi teknikal dan kontrak.

Walaupun bagaimanapun jika produk Tuan ini didapati memuaskan selepas tempoh ini, Tuan bolehlah menghadapkan permohonan untuk membarui persijilan produk dan seterusnya memohon untuk didaftarkan mengikut Skim Persijilan Produk bagi bahan-bahan binaan dibawah Kementerian Pembangunan.

Kementerian Pembangunan berharap semua produk-produk yang dibekalkan di Negara Brunei Darussalam adalah konsisten berkualiti.

" BERSEDIA BERKHIDMAT "

Dengan hormat,

  
[AWG MUHAMMAD ROBIN YONG BIN ABDULLAH ]  
b.p. Setiausaha Tetap (Teknikal & Profesional)  
Kementerian Pembangunan

s.k.

- ☞ Ketua Pengarah Kerja Raya, JKR
- ☞ Pengarah Jalanraya , JKR
- ☞ Pengarah Perkhidmatan Teknikal , JKR
- ☞ Pengarah Perkhidmatan Air, JKR
- ☞ Pengarah Perkhidmatan Bangunan, JKR
- ☞ Pengarah Saliran dan Pembentungan , JKR
- ☞ Pengarah Mekanikal & Elektrikal , JKR
- ☞ Pengarah Kemajuan Perumahan
- ☞ Pengarah Alam Sekitar, Taman dan Rekreasi
- ☞ Fail KPN/ABCi/C/8.1.5

HB/yam





KEMENTERIAN PEMBANGUNAN  
NEGARA BRUNEI DARUSSALAM

BARANGAN YANG DILULUSKAN

Rujukan barangan yang diluluskan : (2247) KPN/ABCI/C/8.0  
Tarikh dikeluarkan : 21hb. Februari 2015  
Tarikh Mansuh : 07hb. Februari 2017

Dengan ini diakui bahawa DSC Engineering Co. Sdn Bhd, Unit 8, 1<sup>st</sup> Floor, Block C, Latifuddin Complex, Jalan Tungku Ltnk, Gadong BE3719, Negara Brunei Darussalam, telah mengikuti skim persijilan barangan Kementerian Pembangunan seperti keterangan di bawah ini :-

Skim Persijilan : Skim 2  
(Sila rujuk Prosidur Persijilan STD3/003  
Keluaran No. 11, Semakan 27hb. Mei 2008)  
: Penggunaan produk ini tertakluk kepada keperluan khas pengguna dari segi teknikal dan kontrak.

Barangan yang diluluskan : "RISHANG LIGHTING PRODUCTS"

- Sila Rujuk Appendix 'B'


Tajuk dan Nombor Piawai (spesikasi) yang berkenaan terhadap persijilan yang dikehendaki. : GB/T19001:2008/ISO9001:2008  
• Design, Manufacture, Service of LED Illumination Products

Issued by : Universal Certification Centre Co. Ltd (UCC)  
China  
Certificate No : UKQ140702BR2  
Certificate Validity: 07/02/2017

ISO14001:2004

- Design, Manufacture, Service & Related Management Activities of Led Illumination Products.

Issued by : Universal Certification Centre Co. Ltd (UCC)  
China  
Certificate No : E1307001R0  
Certificate Validity: 30/06/2016

  
[AWC MUHAMMAD ROBIN YONG BIN ABDULLAH]  
b/p/ Setiausaha Tetap (Teknikal & Professional)  
Kementerian Pembangunan  
Tarikh dikeluarkan: 21/02/2015



# RISHANG OPTOELECTRONICS CO., LTD.


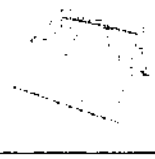

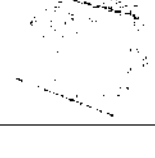
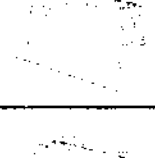
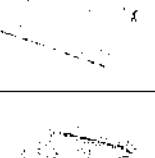
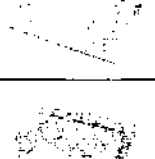
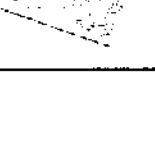
Address: Block 2, Hongfajietai Hi-Tech Park, Tangtou Ave. Shiyao, Bao'an, Shenzhen, G.D 518108 China

Round Panel Down Light ( AC100-240V, Ra≥70/80, Guaranty: 3 Years )

No.	Pictures	Model No.	Description	Product Size / Cut-out Size(mm)	PF	Power (W)	CCT	Lumious Flux (lm)	Country of Origin
1		TD-2P5-23P-02		Product Size Φ85*H21 Cut-out Size: Φ75	0.9	3	2700-3300K	170	CHINA
							4000-4700K	175	
							5000-5800K	180	
							6000-6800K	185	
2		TD-3-04P-02	1. Ultra-slim design, thickness of 13mm, 2. Excellent optical design edge-lit technology, anti- glare, comfort view and smooth light, 3. Isolated driver constant current, high safety	Product Size: Φ110*H22 Cut-out Size Φ95	0.9	4	2700-3300K	210	CHINA
							4000-4700K	220	
							5000-5800K	250	
							6000-6800K	260	
3		TD-4-05P-02	4. High quality aluminum profile, high mechanical strength, non-deformable; 5. Excellent heat dissipation thanks to electrostatic coating technology;	Product Size: Φ120*H21 Cut-out Size: Φ105	0.9	6	2700-3300K	290	CHINA
							4000-4700K	305	
							5000-5800K	345	
							6000-6800K	350	
4		TD-5-08P-02	6. Lifespan >30,000hrs at L70(70% lumens maintenance)	Product Size: Φ150*H21 Cut-out Size: Φ130	0.9	8	2700-3300K	450	CHINA
							4000-4700K	480	
							5000-5800K	540	
							6000-6800K	550	
5		TD-5-12P-04	<ul style="list-style-type: none"> <li>■ CRI &gt; 80</li> <li>■ UGR &lt; 19;</li> <li>■ Efficiency: &gt; 75lm/w;</li> <li>■ Beam Angle &gt; 120°C</li> </ul>	Product Size: Φ170*H20 Cut-out Size Φ155	0.9	12	2700-3300K	620	CHINA
							4000-4700K	620	
							5000-5800K	670	
							6000-6800K	680	
6		TD-7-15P-02	<ul style="list-style-type: none"> <li>■ Voltage: 100-240AC V</li> <li>■ No UV light, do not generate radio waves.</li> <li>■ No flickering</li> </ul>	Product Size: Φ192*H20 Cut-out Size: Φ175	0.9	15	2700-3300K	1080	CHINA
							4000-4700K	1100	
							5000-5800K	1120	
							6000-6800K	1150	
7		TD-8-18P-03	Retrofit for traditional fluorescent lamps and energy saving lamps.	Product Size: Φ224*H20.5 Cut-out Size Φ205	0.9	18	2700-3300K	1340	CHINA
							4000-4700K	1430	
							5000-5800K	1430	
							6000-6800K	1430	
8		TD-12-24P-02		Product Size: Φ296*H20 Cut-out Size: Φ280	0.9	24	2700-3300K	1730	CHINA
							4000-4700K	1750	
							5000-5800K	1800	
							6000-6800K	1810	



Square Panel Down Light ( AC100-240V, Ra≥70/80, Guaranty: 3 Years )

No.	Pictures	Model No.	Description	Product Size / Cut-out Size(mm)	PF	Power ( W )	CCT	Luminous Flux ( lm )	Country of Origin
1		TD-2P5-C3P-03	1. Ultra-slim design, thickness of 13mm.	Product Size: Φ85*85*13 Cut-out Size: Φ70*70	0.9	3	2700-3300K	170	CHINA
							4000-4700K	175	
							5000-5800K	180	
							6000-6500K	185	
2		TD-3-04P-31	2. Excellent PMMA design, edge-lit technology, anti-glare, comfort view and smooth light; 3. Isolated driver, constant current, high safety.	Product Size: Φ110*110*13 Cut-out Size: Φ95*95	0.9	4	2700-3300K	210	CHINA
							4000-4700K	220	
							5000-5800K	250	
							6000-6800K	250	
3		TD-4-06P-01	4. High quality aluminum profile, high mechanical strength, non-deformable; 5. Excellent heat dissipation thanks to electrostatic coating technology.	Product Size: Φ120*120*13 Cut-out Size: Φ105*105	0.9	5	2700-3300K	290	CHINA
							4000-4700K	305	
							5000-5800K	345	
							6000-6800K	350	
4		TD-5-09P-02	6. Lifespan >30,000hrs at L70(70% lumens maintenance)	Product Size: Φ150*150*13 Cut-out Size: Φ135*135	0.9	9	2700-3300K	450	CHINA
							4000-4700K	460	
							5000-5800K	540	
							6000-6800K	550	
5		TD-6-12P-04	■ CRI > 80; ■ UGR < 19; ■ Efficiency >75.m/w	Product Size: Φ170*170*13 Cut-out Size: Φ155*155	0.9	12	2700-3300K	820	CHINA
							4000-4700K	820	
							5000-5800K	870	
							6000-6800K	880	
6		TD-7-16P-02	■ Beam Angle > 120°; ■ Voltage: 100-240AC V ■ No UV light, do not generate radio waves.	Product Size: Φ182*182*13 Cut-out Size: Φ175*175	0.9	15	2700-3300K	1080	CHINA
							4000-4700K	1100	
							5000-5800K	1120	
							6000-6800K	1150	
7		TD-8-18P-03	■ No flickering  Retrofit for traditional fluorescent lamps and energy saving lamps	Product Size: Φ225*225*13 Cut-out Size: Φ205*205	0.9	18	2700-3300K	1340	CHINA
							4000-4700K	1400	
							5000-5800K	1430	
							6000-6800K	1430	
8		TD-12-24P-02		Product Size: Φ300*300*13 Cut-out Size: Φ280*280	0.9	24	2700-3300K	1730	CHINA
							4000-4700K	1750	
							5000-5800K	1800	
							6000-6800K	1810	



595x595x8.5 mm Panel Light (AC 100-240V, 50/60Hz, Ra≥80, Luminous Efficiency: >80lm/w, Guarantee: 3 Years)

No.	Pictures	Model No.	Description	Frame Color	PF	Power (W)	CCT	Luminous Flux (lm)	Country of Origin
1		PB-S65-36P (General Recessed)	1. 90% evenness 2. Mitsubishi PMMA LGP (light guiding panel); 3. Efficiency: > 87, 4. CRI/Ra) > 80; 5. UGR < 19; 6. Beam Angle > 120°C; 7. Installation: recessed, suspended	Creamy White Matt Silver Gold	0.9	35	2700-3300K 4000-4700K 5000-6900K 6000-6900K	2880	CHINA





# RISHANG OPTOELECTRONICS CO., LTD.

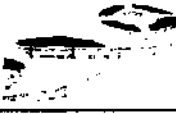
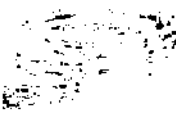






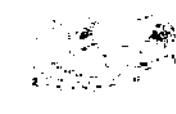
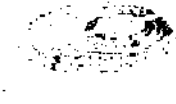
Address: Block 2, Hongfa Jiatel, Hi-Tech Park, Tangtou Ave., Shiyao, Bao'an, Shenzhen, G.D. 518108 China

## Main Product: LED Strips

No.	Item No.	Picture	Description	Color	Luminous Flux (lm/m)	Power (W/m)	CRF	Voltage (V DC)	IP	Beam Angle	Country of Origin
<b>non-waterproof ordinary strip</b>											
1	R086CTA-C		5000*8, 300pcs 2835 SMD monochrome and super bright, bare board series, constant voltage, 12V, flexible LED strip	RS-White	420	5	≥75	12	IP33	115°	China
				Red	162						
				Green	254						
				Blue	78						
				Yellow	135						
2	R08CCTA-C		5000*8, 600pcs 2835 SMD bare board series, constant voltage, 12V, flexible LED strip	Neutral white	635	8.4	≥75	12	IP33	115°	China
3	R08SUTA-B		5000*8, 300pcs 2835 SMD monochrome and super bright, bare board series, constant voltage, 12V, flexible LED strip	Neutral white	410	5.4	≥75	12	IP33	115°	China
4	R0030TA-A		5000*10, 150pcs 2835 SMD bare board series, constant voltage, 12V, flexible LED strip	Neutral white	560	6.94	≥75	12	IP33	115°	China
5	R3060TA-A		5000*10, 300pcs 2835 SMD monochrome, super bright, bare board series, constant voltage, 12V, flexible LED strip	Neutral white	980	12	≥75	12	IP33	115°	China
6	R0000TD-B		5000*10 600pcs 2835 SMD monochrome, bare board series, constant current, 24V, flexible LED strip	Warm white	950	12	≥75	24	IP33	115°	China
				Neutral white	1050						
				Cold white	1050						
<b>Non-waterproof, engineering strip Ra2BD.</b>											
1	R00860TA-C		5000*8, 300pcs 2835 SMD bare board series, constant voltage, 12V engineering, flexible LED strip	Neutral white	390	5	≥80	12	IP33	115°	China
2	R00030TA-A		6000*10, 150pcs 2835 SMD bare board series, constant voltage, 12V engineering, flexible LED strip	Neutral white	590	6.84	≥80	12	IP33	115°	China
				Warm white	440						
3	R00060TA-A		5000*10, 300pcs 2835 SMD bare board series, constant voltage, 12V engineering, flexible LED strip LED type A	Neutral white	1010	12	≥80	12	IP33	115°	China
				Warm white	780						











**Main Product - LED Strip**

No.	Item No.	Picture	Description	Color	Luminous Flux (lm/m)	Power (W/m)	CRI	Voltage (V DC)	IP	Beam Angle	Country of Origin
<b>Non-waterproof, ultra bright strip.</b>											
1	R054ETD		5000*16 , 240pcs 2835 SMD double-row LEDs bare board series, constant current 24V, flexible LED strip	Neutral white	1150	14.4	≥75	24	IP33	115°	China
2	R0896TD		5000*16 , 480pcs 2835 SMD double-row LEDs, bare board series, constant current 24V, flexible LED strip	Neutral white	2200	28.8	≥75	24	IP33	115°	China
3	R08K21 D-B		5000*16 , 960pcs double-row LEDs, SMD 2835 super bright, bare board series, constant current 24V, flexible LED strip	White	1550	20	≥70	24	IP33	115°	China
				Daylight White	1550						
				Warm white	1400						
				Red	400						
4	RC8K1 D-D-UL		5000*16 , 960pcs double-row LEDs, SMD 2835 super bright, bare board series, constant current 24V, flexible LED strip	White	1300	16	≥70	24	IP33	115°	China
				Daylight White	1300						
				Warm white	1150						
				Red	350						
<b>Filled with silica gel strip, waterproof IP65</b>											
1	R6000TA-C		5000*10 , 600pcs 2835 SMD fill with silica gel series, constant voltage 12V, flexible LED strip	Neutral white	498	6.4	≥75	12	IP65	115°	China
2	R6960TA-B		5000*8 , 300pcs 2835 SMD monochrome and super bright fill with silica gel series, constant voltage 12V, flexible LED strip	Neutral white	340	5.4	≥75	12	IP65	115°	China
3	R5030TA-A		5000*10 , 1500pcs 2835 SMD fill with silica gel series, constant voltage 12V, flexible LED strip	Neutral white	480	6.6	≥75	12	IP65	115°	China
4	R6060TA-A		5000*10 , 3000pcs 2835 SMD monochrome, super bright, fill with silica gel series, constant voltage 12V, flexible LED strip	Neutral white	710	12	≥75	12	IP65	115°	China
<b>RGBW Strip</b>											
1	R0272AC		5000*12 , 390pcs 5050 SMD bare board series, constant voltage 24V, flexible LED strip (multiple colors)	RGBW	500	12	-	24	IP33	115°	China
2	R6277AC		5000*12 , 360pcs 5050 SMD fill with silica gel series, constant voltage 24V, flexible LED strip (multiple colors)	RGBW	450	12	-	24	IP65	115°	China





## Yampro Lighting LED Strips

No.	Item No.	Picture	Description	Color	Luminous Flux (lm/m)	Power (W/m)	CRI	Voltage (V DC)	IP	Beam Angle	Country of Origin
<b>3-dimensional effect strip</b>											
1	RDW54TA-A		2000*6, 108pcs 2835SMD LEDs, bare board series, 12Vdc, constant voltage, LED flex strip with 3-dimensional effect.	White	550	6.3	≥75	12	-	115°	China
	Red			150	5.5	-	12	-	115°		
2	RDW78TA-B		2000*6, 108pcs 2835SMD LEDs, bare board series, 12Vdc, constant voltage, LED flex strip with 3-dimensional effect.	White	530	5.6	≥75	12	-	115°	China
	Red			140	5.9	-	12	-	115°		
<b>Strips for retail sales</b>											
1	RDD-5050-033		5000*10, 150pcs 5050 SMD full color group control, bare board series, 12V flexible, economical strip, retail version.	RS-RGB	R: 13.4 G: 80 B: 19.6	20	-	12	IP65	115°	China
2	RDD-5050-035			RS-RGB	R: 12 G: 76 B: 17.2	20	-	12	IP65	115°	China
<b>High voltage strip</b>											
1	RH5000BA		10000*10, 6000pcs 3528 SMD PVC extruded (hollow), AC220V high voltage, flexible LED strip.	Neutral white	130	3	≥75	AC 220-240	IP65	115°	China
2	RH5430TA		8000*14, 1500pcs 2835 SMD PVC extruded (hollow), AC220V high voltage, flexible LED strip.	Neutral white	160	5	≥75	AC 220-240	IP65	115°	China
3	RH5460AA		5000*14, 3000pcs 5050 SMD PVC extruded (hollow), AC220V high voltage, flexible LED strip.	Neutral white	330	6	≥75	AC 220-240	IP65	115°	China
4	RH5460TA		5000*14, 3000pcs 2835 SMD PVC extruded (hollow), AC220V high voltage, flexible LED strip.	Neutral white	330	6	≥75	AC 220-240	IP65	115°	China
<b>Long cascade RGB strips</b>											
1	R6G30AP		20000*15, 6000pcs 5050SMD LEDs, PVC extruded tube (hollow), full color group control series, 24Vdc, LED flex strip.	RGB	R: 26 G: 71 B: 18	5.2	-	24	IP65	115°	China
2	R6G60AP			RGB	R: 44 G: 132 B: 34	8.4	-	24	IP65	115°	China





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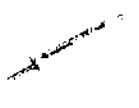

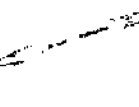
Main Products: LED Driver										
No.	Model no.	Photos	Description	Input Voltage (AC)	Rated Voltage (DC)	Rated Power	Size(L*W*H (mm))	Guarantee	Country of Origin	
1	LZ9-0120075		Plastic housing CE, UL, RoHS, CB, FCC	100-240V 50/60Hz	12V	9W	87.5*40*25	3 Years	China	
	LZ9-0240036				24V					
2	LZ15-0120125		Class II Have OVP, OCP, SCP, OTP protection function		12V	1.5W	107.5*45*25	3 Years		
	LZ15-0240063				24V					
3	LZ36-0120300		Indoor use, working Temp: -25°C ~ +40°C		12V	36W	140*41*26	3 Years		
	LZ36-0240150				24V					
4	LW30-0120250		Water-proof, metal case		12V	30W	153*41*26	5 Years		
	LW30-0240125				24V					
5	LW60-0120500				12V	60W	182*44*24	5 Years		
	LW60-0240250				24V					
6	LW100-0120833				Class II Have OVP, OCP, SCP, OTP protection function	12V	100W	174*57*26		
	LW100-0240416			24V						
7	LW150-0121250			Class II Have OVP, OCP, SCP, OTP protection function	12V	150W	198*57*26	5 Years		
	LW150-0240625				24V					
10	CPV60-0120500			Indoor/outdoor use, working Temp: -40°C ~ +85°C	12V	60W	159*56*32.5	3 Years	China	
	CPV60-0240250				24V					
11	CPW100-0120833			Indoor/outdoor use, working Temp: -40°C ~ +85°C	12V	100W	182*52*42	3 Years		
	CPW100-0240416		24V							





# RISHANG OPTOELECTRONICS CO., LTD.

Address: Block 2, Hongfa Jitai, Hi-Tech Park, Tangtou Ave. Shiyao, Bao'an, Shenzhen, G.D 518108 China

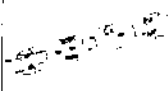


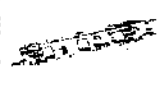
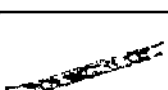


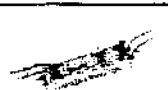
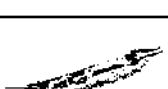
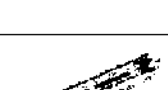

Main Products: LED Module											
No.	Item No.	Picture	Description	Color	Luminous Flux (lm/pc)	Power (W/pc)	CR	Voltage (V)	IP	Beam Angle	Country of Origin
<b>Non-water proof LED Modules</b>											
1	MD11TA		12835 SMD 1pcs LED, 18*6 bare board series, constant voltage 12V, module	RS-white	25.5	0.24	≥76	12	I	115°	China
2	MD02TA		2635SMD 2pcs LED, 24*6 bare board series, constant voltage 12V, module	White	16	0.24	≥76	12	IP33	115°	China
				Red	5	0.24	-				
				Green	8	0.24	-				
				Blue	2	0.24	-				
3	MD03TA		2835SMD 3pcs LED, 60*4.5 bare board with slot series, constant voltage 12V, module	White	28.3	0.33	≥76	12	IP33	115°	China
				Red	9	0.33	-				
				Green	13.5	0.24	-				
				Blue	3	0.24	-				
4	MD04TA		2635SMD 3pcs LED, 43*6 bare board series, constant voltage 12V, module	White	9	0.33	≥75	12	IP33	115°	China
				Red	9	0.33	-				
				Green	13.5	0.24	-				
				Blue	3	0.24	-				
5	MD03TA		2835SMD 3pcs LED, 60*4.5 bare board with slot series, constant voltage 12V, module	White	32	0.33	≥75	12	IP33	115°	China
				Red	9	0.33	-				
				Green	13.5	0.24	-				
				Blue	3	0.24	-				



**Main Products - LED Modules**


No.	Item No.	Picture	Description	Color	Luminous Flux (lm/pc)	Power (W/pc)	CRI	Voltage (V)	IP	Beam Angle	Country of Origin
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**LED Modules with ABS housing and epoxy-gluie pouring, IP65**

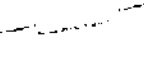
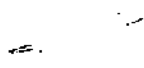
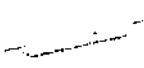

1	M133AA		5*5 SMD 3pcs LED, 78*15 water-proof, 12V, module	white	48	0.72	-	12	IP65	115°	China
				Red	16						
				Green	35						
				Blue	10						
				Yellow	14						
2	M124AA		5*5SMD 4pcs LED, 36*36 water-proof, 12V, module	RS-white	64	0.96	-	12	IP65	115°	China
				Red	24.4						
				Green	49						
				Blue	12.8						
				Yellow	16.2						
3	M102BA		3528 SMD 2pcs LED, 26*7, water-proof, 12V, module	white	14	0.24	-	12	IP65	115°	China
				Red	5						
				Green	8						
				Blue	2						
				Yellow	4						
4	M103BA		3528SMD 3pcs LED, 38*12, water-proof, 12V, module	white	21	0.24	-	12	IP65	115°	China
				Red	8.7						
				Green	12						
				Blue	3						
				Yellow	7.6						
5	M113BA		3528SMD 3pcs LED, 66*12, water-proof, 12V, module	white	21	0.33	-	12	IP65	115°	China
				Red	8.7						
				Green	12						
				Blue	3						
				Yellow	7.5						
6	M101TA		2835SMD 1pcs LED, 20*27 slot and fill with glue series, constant voltage 12V, module	white	25.5	0.24	275	12	IP67	115°	China
7	M102TA		2835SMD 3pcs LED, 26*7, slot and fill with glue series, constant voltage 12V, module	white	18	0.24	-	12	IP65	115°	China
				Red	5						
				Green	8						
				Blue	2						
				Yellow	6						
8	M103TA		2835SMD 3pcs LED, 38*12, slot and fill with glue series, constant voltage 12V, module	white	26.2	0.33	-	12	IP65	115°	China
				Red	8.7						
				Green	12						
				Blue	3						
				Yellow	7.5						
9	M113TA		2835SMD 3pcs LED, 66*12 slot and fill with glue series, constant voltage 12V, module	white	26	0.33	-	12	IP65	115°	China
				Red	9						
				Green	13.5						
				Blue	3						
				Yellow	10.5						
10	M183TA		2835SMD 3pcs LED, 78*15, slot and fill with glue economical series, constant voltage 12V, module	white	65	0.72	-	12	IP65	115°	China
				Red	16						
				Green	33						
				Blue	9						
				Yellow	18						
11	M124TA		2835SMD 4pcs LED, 36*36 slot and fill with glue series, constant voltage 12V, module	White	100	0.96	-	12	IP65	115°	China
				Red	24						
				Green	44						
				Blue	12						
				Yellow	24						






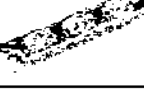
**Main Products - LED Modules**

No.	Item No.	Picture	Description	Color	Luminous Flux (lm/pc)	Power (W/pc)	CRI	Voltage (V)	IP	Beam Angle	Country of Origin
12	M112TA		2835SMD 2pcs LED, 49*15 slot and fill with glue series, constant voltage 12V, module	RS-white	40	0.8	≥75	12	IP65	115°	China
				Red	10	0.8	-				
				Green	22	0.48	-				
				Blue	6	0.48	-				
				Yellow	10	0.8	-				

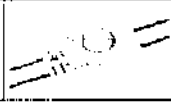


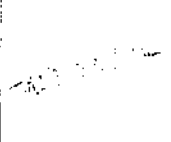
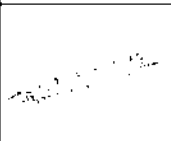
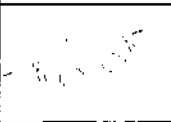
**LED Modules with ABS housing and epoxy-glue pouring, IP65, SMD 2835**

1	M602TA		2835SMD 2pcs LED 30*7 white exterior casing, high voltage injection series, constant voltage 12V 0.33W, module	White	20	0.33	≥75	12	IP65	115°	China
				Red	6	0.33	-				
				Green	9	0.24	-				
				Blue	2	0.24	-				
				Yellow	7	0.33	-				
2	M603TA		2835SMD 3pcs LED, 46*12.4 white exterior casing, high voltage injection series, constant voltage 12V 0.33W, module	White	30	0.33	≥75	12	IP65	115°	China
				Red	6	0.33	-				
				Green	19.5	0.24	-				
				Blue	3	0.24	-				
				Yellow	10.5	0.33	-				
3	M613TA		2835SMD 3pcs LED, 74*12.4 white exterior casing, high voltage injection series, constant voltage 12V 0.33W, module	White	30	0.33	≥75	12	IP65	115°	China
				Red	9	0.33	-				
				Green	19.5	0.24	-				
				Blue	3	0.24	-				
				Yellow	10.5	0.33	-				
4	M633TA		3pcs 2835 SMD LED, 72*13*5, high-pressure injection series with white housing, 12Vdc, 0.65W constant voltage, module	White	63	0.66	≥75	12	IP65	115°	China
				Red	16	0.66	-				

**High-Efficiency LED-Modules with lens for Lightboxes and Channel letters, 2835 SMD LED, IP67**

1	M912TA		2835SMD 2pcs LED, 46*13, equipped with lens and fill with glue series, constant voltage 12V, module	White	36.6	0.86	≥75	12	IP67	160°	China
				Red	10.5	0.72	-				
2	M912TB		35SMD 2pcs LED, 46*13, equipped with lens and fill with glue series, constant current 12V, module	RS-white	70	0.72	≥75	12	IP67	160°	China
				Red	10.5	0.72	-				
3	M923TA		2835SMD 3pcs LED, 84*13, equipped with lens and fill with glue series, constant voltage 12V, module	RS-white	50	0.56	≥75	12	IP67	163°	China
				Red	17	0.72	-				
4	M923TB		2835SMD 3pcs LED, 84*13, equipped with lens and fill with glue series, constant current 12V, module	RS-white	101	1.2	≥75	12	IP67	163°	China
				Red	28	1.2	-				





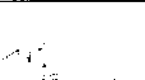
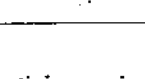


Main Product: LED Module											
No	Item No.	Picture	Description	Color	Luminous Flux (lm/pc)	Power (W/pc)	CR	Voltage (V)	IP	Beam Angle	Country of Origin
High-Efficiency LED-Modules with lens for Lightboxes and Channel letters. 2835 SMD LED, IP65											
1	M811TB		2835SMD 1pcs LED, 25.2*13*9.5 white exterior casing, high-voltage injection with lens, constant current, 12V, module	white	32	0.26	≥75	12	IP65	180°	China
				red	12.5						
2	M902TA		2835SMD 2pcs LED, 46*13*9.5 white exterior casing, high-voltage injection with lens, constant voltage 12V, module	white	70	0.72	≥75	12	IP65	160°	China
				red	11	0.72	-				
				Green	21	0.48	-				
				Blue	5	0.48	-				
				Yellow	13	0.72	-				
3	M902TE		2835SMD 2pcs LED, 46*13*9.5 white exterior casing, high-voltage injection with lens, constant current, 12V, module	white	70	0.72	≥75	12	IP65	160°	China
				red	11	0.72	-				
				Green	21	0.48	-				
				Blue	5	0.48	-				
				Yellow	13	0.72	-				
4	M903TA		2835SMD 3pcs LED, 66*13*9.2 white exterior casing, high-voltage injection with lens, constant voltage 12V 0.72W, module	white	70	0.72	≥75	12	IP65	160°	China
				red	17		-				
				Green	32		-				
				Blue	8		-				
				Yellow	20		-				
5	M903TE		2835SMD 3pcs LED, (monocrystal) 65*13*9.2 white exterior casing, high-voltage injection with lens, constant current, 12V 1.2W module	white	97	1.2	≥75	12	IP65	160°	China
				red	33		-				
				Green	75		-				
				Blue	16		-				
				Yellow	26		-				
6	M904TB		2835SMD 4pcs LED, 47*36*8.7 white exterior casing, high-voltage injection with lens, constant current, 12V 1.44W, module	white	140	1.44	≥75	12	IP65	160°	







**LED Module**

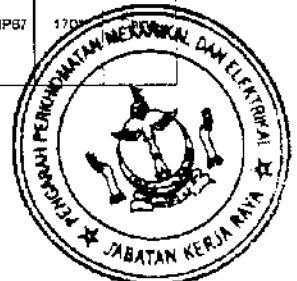
No.	Item No.	Picture	Description	Color	Luminous Flux (lm/pc)	Power (W/pc)	CRI	Voltage (V)	IP	Beam Angle	Country of Origin
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**Edge LED Modules with lens for Lightboxes.**

1	M921DB		3535SMD 1pcs LED, 52*56*19beige housing, high-voltage injection with lens, constant current 12V 1.2W, side-in, module	Neutral white	126	1.2	≥75	12	IP65	10° * 40°	China
2	M921DB		3535SMD 1pcs LED, 64*40*22.5 white exterior casing, high-voltage injection with lens, constant current, 12V 1.2W, module	Neutral white	124	1.2	≥70	12	IP65	12° * 47°	China
3	MG01DB		3535SMD 1pcs LED, 130*58*20beige housing, high-voltage injection with optical device and radiator, constant current 12V 2.3W, side-in, module	Neutral white	279	2.3	≥75	12	IP65	10° * 40°	China
4	MG11DB		3535SMD 1pcs LED, 180*58*20beige housing, high-voltage injection with optical device and radiator, constant current, 12V 2.7W, side-in, module	Neutral white	277	2.7	≥75	12	IP65	10° * 40°	China
5	MG21DB		3535SMD 1pcs LED, 154*43*24 5white exterior casing, high-voltage injection with optical device and radiator, constant current, 12V 2.7W, module	Neutral white	254	2.7	≥70	12	IP65	12° * 47°	China
6	MG01XBE		XB-DSMD 1 pcs LED, 150*52*20beige housing, high-voltage injection with optical device and radiator, constant current 12V 2.4W*3, side-in, module	CREE white	833	7.2	≥75	12	IP65	14° * 40°	China

**Perforated Module**

1	C115AAW		5050SMD 1pcs LED, Ø15 constant voltage 12V 0.24W, high-voltage injection series with frosted lens	RS-white	20	0.24	≥75	12	IP68	150°	China
2	C112BEW		3528SMD 1pcs LED, Ø12 constant voltage 5V 0.1W, high-voltage injection series with frosted lens	Red	2.5	0.1	-	12	IP66	150°	China
3	C112TAW		2835SMD 1pcs LED, Ø12 constant voltage 12V 0.16W, high-voltage injection series with frosted lens	RS-white	6.5	0.16	≥75	12	IP65	150°	China
4	C109TAW		1pcs 2835 SMD LED, 12VDC, 0.10W Φ8, constant voltage, high-pressure injection series frosted LED perforated lamp	RS-white	12	0.16	≥80	12	P96	115°	China
	C109TEW		1pcs 2835 SMD LED, 5VDC, 0.1W Φ8, constant voltage, high-pressure injection series frosted LED perforated lamp	Red	2.5	0.1	-	5	IP66	115°	China
5	M833TB		2835 SMD 3pcs LED, Φ45 constant current, 12V 1W, with optical device LED perforated module	RS-white	80	1	≥75	12	IP67	170°	China
				Red	30	1	-	12	IP67	170°	China
6	M833AQ		2835 SMD 3pcs LEDs, Φ45*21.6, 12VDC, full color point control with transparent housing and optical lens, fill glue, high-power LED perforated module	red green	18	0.72	-	12	IP67	170°	China
7	M833AR		3pcs 5050 SMD LEDs, Φ45*21.6, 12VDC, full color point control with transparent housing and optical lens, fill glue, high-power LED perforated module	red green blue	17	0.84	-	12	IP67	170°	China





# RISHANG OPTOELECTRONICS CO.,LTD.

Address: Block 2, Hongfa Jialali Hi-Tech. Park, Tangtuo Ave., Shiyao, Bao'an, Shenzhen, G.D. 518108 China

Main Products LED Light Bar											
No.	Item No.	Photos	Description	Color	Luminous Flux (lm/pc)	Power (W/pc)	CRI	Voltage (V)	IP	Beam Angle	Country of Origin
Side-in Rigid bar suite to 8-20cm depth single-sided or 14-40cm depth double-sided light box, the width of which should be with 2M.											
1	Z8003XBD		297.5*27.5 3pcs XB-D monochrome, bare board with lens series, constant current, DC24V Rigid bar. L*W*H=517.5*27.5*15mm.	CREE natural white	660	6.8	275	24		10° * 40°	China
				CREE warm white	501						
				CREE daylight white	570						
2	Z8006XBD		297.5*27.5 5pcs XB-D monochrome, bare board with lens series, constant current, DC24V Rigid bar. L*W*H=297.5*27.5*15mm.	CREE natural white	1100	11	275	24		10° * 40°	China
				CREE warm white	835						
				CREE daylight white	950						
3	Z7003XBD		297.5*27.5 3pcs XB-D monochrome, bare board with lens series, constant current, DC24V Rigid bar. L*W*H=517.5*27.5*15mm.	CREE natural white	660	6.8	275	24	IP65	10° * 40°	China
				CREE warm white	501						
				CREE daylight white	570						
4	Z7006XBD		297.5*27.5 5pcs XB-D monochrome, bare board with lens series, constant current, DC24V Rigid bar. L*W*H=297.5*27.5*15mm.	CREE natural white	1100	11	275	24	IP65	10° * 40°	China
				CREE warm white	835						
				CREE daylight white	950						







**Item 8.1.3 LED Light Bar**

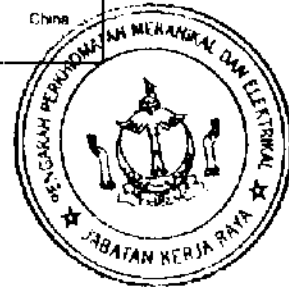
No.	Item No.	Photos	Description	Color	Luminous Flux (lm/pc)	Power (W/pc)	CRF	Voltage (V)	IP	Beam Angle	Country of Origin
<b>2835 non-waterproof shutter rigid bar series</b>											
1	Z0012TA-B		2835 SMT 12pcs 500*10 single-sided lighting, bare board series, constant voltage 12V, shutter Rigid bar	RS white	120	1.32	275	12	IP33	115°	China
2	Z0018TA-B		2835 SMT 18pcs 500*10 single-sided lighting, bare board series, constant voltage 12V, shutter Rigid bar	RS white	173	1.98	276	12	IP33	115°	China
3	Z0024TA-B		2835 SMT 24pcs 500*10 single-sided lighting, bare board series, constant voltage 12V, shutter Rigid bar	RS-white	230	2.64	276	12	IP33	115°	China
4	Z0036TA-B		2835 SMT 36pcs 500*10 double-sided lighting, bare board series, constant voltage 12V, shutter Rigid bar	RS white	324	3.86	275	12	IP33	115°	China
<b>2835 Economic Rigid Bar</b>											
1	Z1036TA		2835 SMT 36pcs 1200*12, fill with epoxy resin series, constant voltage 12V Rigid bar	Neutral white	647	8	275	12	IP65	115°	China
2	Z1030TA		2835 SMT 30pcs 1000*13, fill with epoxy resin series, constant voltage 12V Rigid bar	Neutral white	518	6.6	275	12	IP65	115°	China
3	Z1018TA		2835 SMT 18pcs 800*12, fill with epoxy resin series, constant voltage 12V Rigid bar	Neutral white	343	4	275	12	IP65	115°	China
4	Z8072IA		2835 SMT 72pcs 1200*12, double-sided lighting, bare board with slot series, constant voltage 12V Rigid bar	Neutral white	835	8	275	12	IP65	115°	China
5	Z8038TA		2835 SMT 36pcs 800*12, double-sided lighting, bare board with slot series, constant voltage 12V Rigid bar	Neutral white	327	4	275	12	IP65	115°	China



Light Products 12V Rigid Bar											
No.	Item No.	Photos	Description	Color	Luminous Flux (lm/pc)	Power (W/pc)	CRI	Voltage (V)	IP	Beam Angle	Country of Origin
<b>2835 Milky way series</b>											
1	Z2108TA-UL		2835 SMT 8pcs 600*18, single-sided lighting, with transmitting cover series, constant voltage 12V Rigid bar-UL	Cold white	173	2.7	≥75	12	IP54	115°	China
2	Z2018TA-UL		2835 SMT 18pcs 600*18, single-sided lighting, with transmitting cover series, constant voltage 12V Rigid bar-UL	Cold white	348	6.4	≥75	12	IP54	115°	China
3	Z2118TA-UL		2835 SMT 18pcs 1200*18, single-sided lighting, with transmitting cover series, constant voltage 12V Rigid bar-UL	Cold white	325	6.4	≥75	12	IP54	115°	China
4	Z2136TA-UL		2835 SMT 36pcs 1200*18, single-sided lighting, with transmitting cover series, constant voltage 12V Rigid bar-UL	Cold white	710	10.8	≥75	12	IP54	115°	China
5	Z2218TA-UL		2835 SMT 18pcs 600*18 double-sided lighting, with transmitting cover series, constant voltage 12V Rigid bar-UL	Cold white	332	6.4	≥75	12	IP54	115°	China
6	Z2336TA-UL		2835 SMT 36pcs 1200*18 double-sided lighting, with transmitting cover series, constant voltage 12V Rigid bar-UL	Cold white	645	10.8	≥75	12	IP54	115°	China
7	Z2436TA-UL		2835 SMT 36pcs 600*32 double-sided lighting, with transmitting cover series, constant voltage 12V Rigid bar-UL	Cold white	580	10.8	≥75	12	IP54	115°	China
8	Z2472TA-UL		2835 SMT 72pcs 1200*32 double-sided lighting, with transmitting cover series, constant voltage 12V Rigid bar-UL	Cold white	1110	21.6	≥75	12	IP54	115°	China



No.	Item No.	Photos	Description	Color	Luminous Flux (lm/pc)	Power (W/pc)	GRU	Voltage (V)	IP	Beam Angle	Country of Origin
1	Z6008TA		2835 SMT 8pcs 500*10 single sided lighting, bare board with lens series, constant voltage 12V Rigid bar	RS white	242	2.88	275	12	IP33	160°	China
2	Z6016TA		2835 SMT 16pcs 500*10 double sided lighting, bare board with lens series, constant voltage 12V Rigid bar	RS white	432	5.76	275	12	IP33	160°	China
3	Z9008TA		2835 SMT 8pcs 500*16 single sided lighting, equipped with lens, constant voltage 12V Rigid bar	Neutral white	239	2.88	275	12	IP65	160°	China
4	Z9012TA		2835 SMT 12pcs 500*16 single sided lighting, equipped with lens, fill with epoxy resin series, constant voltage 12V Rigid bar	Neutral white	368	4.32	275	12	IP65	160°	China
5	Z9024TA		2835 SMT 24pcs 1197*16 single-sided lighting, equipped with lens, fill with epoxy resin series, constant voltage 12V Rigid bar	Neutral white	695	8.64	275	12	IP65	160°	China
6	Z9030TA		2835 SMT 30pcs 1485*16 single-sided lighting, equipped with lens, fill with epoxy resin series, constant voltage 12V Rigid bar	Neutral white	842	10.8	275	12	IP65	160°	China



M-T Products LED Light Bar											
No.	Item No.	Photos	Description	Color	Luminous Flux (lm/pc)	Power (W/pc)	CRI	Voltage (V)	IP	Beam Angle	Country of Origin
<b>2835 double-sided lighting, equipped with lens, Rigid bar</b>											
1	Z2318TA-B		2835 SMT 18pcs 624*Φ16double-sided lighting, with transmitting cover series, constant voltage 12V Rigid bar	Neutral white	152	1.98	≥75	12	IP54	115°	China
2	Z2036TA-B		2835 SM1 36pcs 1173*Φ16double-sided lighting, with transmitting cover series, constant voltage 12V Rigid bar	Neutral white	297	3.96	≥75	12	IP54	115°	China
3	Z2048TA-B		2835 SMT 48pcs 1540*Φ16double-sided lighting, with transmitting cover series, constant voltage 12V Rigid bar	Neutral white	392	5.28	≥75	12	IP54	115°	China
4	Z22361A-B		2835 SM1 36pcs 624*Φ16double-sided lighting, with transmitting cover series, constant voltage 12V Rigid bar	Neutral white	306	3.96	≥75	12	IP54	115°	China
5	Z20721A-B		2835 SMT 72pcs 1173*Φ16double-sided lighting, with transmitting cover series, constant voltage 12V Rigid bar	Neutral white	570	7.92	≥75	12	IP54	115°	China
6	Z2096TA-B		2835 SMT 96pcs 1539*Φ16double-sided lighting, with transmitting cover series, constant voltage 12V Rigid bar	Neutral white	701	10.56	≥75	12	IP54	115°	China

